

2500

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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/099,766

DATE: 04/03/2002
 TIME: 15:03:37

Input Set : A:\D6390SEQ.txt
 Output Set: N:\CRF3\04032002\J099766.raw

2 <110> APPLICANT: Lewis, Kathy
 3 Vale, Wylie
 4 Marilyn H. Perrin
 5 Jean E. Rivier
 6 Koichi S. Kunitake
 7 Jozsef Gulyas
 9 <120> TITLE OF INVENTION: Urocortin III and Uses Thereof
 11 <130> FILE REFERENCE: D6390
 W--> 13 <140> CURRENT APPLICATION NUMBER: US/10/099,766
 13 <141> CURRENT FILING DATE: 2002-03-15
 15 <150> PRIOR APPLICATION NUMBER: US 60/276,069
 16 <151> PRIOR FILING DATE: 2001-03-15
 18 <160> NUMBER OF SEQ ID NOS: 17
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 689
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Homo sapiens
 26 <220> FEATURE:
 27 <223> OTHER INFORMATION: DNA encoding human urocortin III
 29 <400> SEQUENCE: 1
 30 aattcggcac gagggggacc gtttccatag agaggggaata tcacagccca 50
 31 cttaggaaca atacctggag aagcaggagc cgagaccccg gagcagccac 100
 32 aagttcatgg ggacgtgcat ggggccgccc tcctggccct gaagctgcgc 150
 33 cggcctccct gagegtttcg ctgcggaggg aagtccactc tcggggagag 200
 34 atgctgatgc cggctccactt cctgctgctc ctgctgctgc tcctgggggg 250
 35 ccccaggaca ggcctccccc acaagttcta caaagccaag cccatcttca 300
 36 gctgcctcaa caccgccttg tctgaggctg agaagggcca gtgggaggat 350
 37 gcatccctgc tgagcaagag gagcttccac tacctgcgca gcagagacgc 400
 38 ctcttcggga gaggaggagg agggcaaaga gaaaaagact ttccccatct 450
 39 ctggggccag gggtaggagc ggaggcaccg gttacagata cgtgtcccaa 500
 40 gcacagccca ggggaaagcc acgccaggac acagccaaga gtccccaccg 550
 41 caccàagttc accctgtccc tcgacgtccc caccaacatc atgaacctcc 600
 42 tcttcaacat cgccaaggcc aagaacctgc gtgccaggc ggccgccaat 650
 43 gccacctga tggcgcaaat tgggaggaag aagtagagg 689
 46 <210> SEQ ID NO: 2
 47 <211> LENGTH: 161
 48 <212> TYPE: PRT
 49 <213> ORGANISM: Homo Sapiens
 51 <220> FEATURE:
 52 <223> OTHER INFORMATION: Human urocortin III Precursor
 54 <400> SEQUENCE: 2
 55 Met Leu Met Pro Val His Phe Leu Leu Leu Leu Leu Leu Leu
 56 5 10 15

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58 Gly Gly Pro Arg Thr Gly Leu Pro His Lys Phe Tyr Lys Ala Lys
59                      20                      25                      30
61 Pro Ile Phe Ser Cys Leu Asn Thr Ala Leu Ser Glu Ala Glu Lys
62                      35                      40                      45
64 Gly Gln Trp Glu Asp Ala Ser Leu Leu Ser Lys Arg Ser Phe His
65                      50                      55                      60
67 Tyr Leu Arg Ser Arg Asp Ala Ser Ser Gly Glu Glu Glu Glu Gly
68                      65                      70                      75
70 Lys Glu Lys Lys Thr Phe Pro Ile Ser Gly Ala Arg Gly Gly Ala
71                      80                      85                      90
73 Gly Gly Thr Arg Tyr Arg Tyr Val Ser Gln Ala Gln Pro Arg Gly
74                      95                      100                     105
76 Lys Pro Arg Gln Asp Thr Ala Lys Ser Pro His Arg Thr Lys Phe
77                      110                     115                     120
79 Thr Leu Ser Leu Asp Val Pro Thr Asn Ile Met Asn Leu Leu Phe
80                      125                     130                     135
82 Asn Ile Ala Lys Ala Lys Asn Leu Arg Ala Gln Ala Ala Ala Asn
83                      140                     145                     150
85 Ala His Leu Met Ala Gln Ile Gly Arg Lys Lys
86                      155                     160
89 <210> SEQ ID NO: 3
90 <211> LENGTH: 38
91 <212> TYPE: PRT
92 <213> ORGANISM: Homo Sapiens
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Human urocortin III (hUcn III)
97 <400> SEQUENCE: 3
98 Phe Thr Leu Ser Leu Asp Val Pro Thr Asn Ile Met Asn Leu Leu
99                      5                      10                      15
101 Phe Asn Ile Ala Lys Ala Lys Asn Leu Arg Ala Gln Ala Ala Ala
102                      20                      25                      30
104 Asn Ala His Leu Met Ala Gln Ile
105                      35
108 <210> SEQ ID NO: 4
109 <211> LENGTH: 164
110 <212> TYPE: PRT
111 <213> ORGANISM: Mus musculus
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Mouse urocortin III Precursor
116 <400> SEQUENCE: 4
117 Met Leu Met Pro Thr Tyr Phe Leu Leu Pro Leu Leu Leu Leu Leu
118                      5                      10                      15
120 Gly Gly Pro Arg Thr Ser Leu Ser His Lys Phe Tyr Asn Thr Gly
121                      20                      25                      30
123 Pro Val Phe Ser Cys Leu Asn Thr Ala Leu Ser Glu Val Lys Lys
124                      35                      40                      45
126 Asn Lys Leu Glu Asp Val Pro Leu Leu Ser Lys Lys Ser Phe Gly
127                      50                      55                      60
129 His Leu Pro Thr Gln Asp Pro Ser Gly Glu Glu Asp Asp Asn Gln

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130          65          70          75
132 Thr His Leu Gln Ile Lys Arg Thr Phe Ser Gly Ala Ala Gly Gly
133          80          85          90
135 Asn Gly Ala Gly Ser Thr Arg Tyr Arg Tyr Gln Ser Gln Ala Gln
136          95         100         105
138 His Lys Gly Lys Leu Tyr Pro Asp Lys Pro Lys Ser Asp Arg Gly
139         110         115         120
141 Thr Lys Phe Thr Leu Ser Leu Asp Val Pro Thr Asn Ile Met Asn
142         125         130         135
143 Ile Leu Phe Asn Ile Asp Lys Ala Lys Asn Leu Arg Ala Lys Ala
144         140         145         150
146 Ala Ala Asn Ala Gln Leu Met Ala Gln Ile Gly Lys Lys Lys
147         155         160
150 <210> SEQ ID NO: 5
151 <211> LENGTH: 38
152 <212> TYPE: PRT
153 <213> ORGANISM: Mus musculus
155 <220> FEATURE:
156 <223> OTHER INFORMATION: Mouse urocortin III (mUcn III)
158 <400> SEQUENCE: 5
159 Phe Thr Leu Ser Leu Asp Val Pro Thr Asn Ile Met Asn Ile Leu
160          5          10          15
162 Phe Asn Ile Asp Lys Ala Lys Asn Leu Arg Ala Lys Ala Ala Ala
163         20         25         30
165 Asn Ala Gln Leu Met Ala Gln Ile
166         35
169 <210> SEQ ID NO: 6
170 <211> LENGTH: 38
171 <212> TYPE: PRT
172 <213> ORGANISM: Takifugu rubripes
174 <220> FEATURE:
175 <223> OTHER INFORMATION: Pufferfish Urocortin Related Peptide
176      (pfURP) (AJ25132)
178 <400> SEQUENCE: 6
179 Leu Thr Leu Ser Leu Asp Val Pro Thr Asn Ile Met Asn Val Leu
180          5          10          15
182 Phe Asp Val Ala Lys Ala Lys Asn Leu Arg Ala Lys Ala Ala Glu
183         20         25         30
185 Asn Ala Arg Leu Leu Ala His Ile
186         35
189 <210> SEQ ID NO: 7
190 <211> LENGTH: 38
191 <212> TYPE: PRT
192 <213> ORGANISM: Takifugu rubripes
194 <220> FEATURE:
195 <221> NAME/KEY: PEPTIDE
196 <222> LOCATION: 29
197 <223> OTHER INFORMATION: Pufferfish (AL175143); Xaa is unknown
199 <400> SEQUENCE: 7

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```

200 Phe Ala Leu Ser Leu Asp Val Pro Thr Ser Ile Leu Ser Val Leu
201                               5              10              15
W--> 203 Ile Asp Leu Ala Lys Asn Gln Asp Met Arg Ser Lys Ala Xaa Arg
204                               20              25              30
206 Asn Ala Glu Leu Met Ala Arg Ile
207                               35
209 <210> SEQ ID NO: 8
210 <211> LENGTH: 38
211 <212> TYPE: PRT
212 <213> ORGANISM: Homo sapiens
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Human Urocortin-related peptide (hURP),
216     human urocortin II
218 <400> SEQUENCE: 8
219 Ile Val Leu Ser Leu Asp Val Pro Ile Gly Leu Leu Gln Ile Leu
220                               5              10              15
222 Leu Glu Gln Ala Arg Ala Arg Ala Ala Arg Glu Gln Ala Thr Thr
223                               20              25              30
225 Asn Ala Arg Ile Leu Ala Arg Val
226                               35
229 <210> SEQ ID NO: 9
230 <211> LENGTH: 38
231 <212> TYPE: PRT
232 <213> ORGANISM: Mus musculus
234 <220> FEATURE:
235 <223> OTHER INFORMATION: Mouse Urocortin II (mUcn II)
237 <400> SEQUENCE: 9
238 Val Ile Leu Ser Leu Asp Val Pro Ile Gly Leu Leu Arg Ile Leu
239                               5              10              15
241 Leu Glu Gln Ala Arg Tyr Lys Ala Ala Arg Asn Gln Ala Ala Thr
242                               20              25              30
244 Asn Ala Gln Ile Leu Ala His Val
245                               35
249 <210> SEQ ID NO: 10
250 <211> LENGTH: 41
251 <212> TYPE: PRT
252 <213> ORGANISM: Homo sapiens
254 <220> FEATURE:
255 <223> OTHER INFORMATION: Human Corticotropin Releasing Factor (hCRF)
257 <400> SEQUENCE: 10
258 Ser Glu Glu Pro Pro Ile Ser Leu Asp Leu Thr Phe His Leu Leu
259                               5              10              15
261 Arg Glu Val Leu Glu Met Ala Arg Ala Glu Gln Leu Ala Gln Gln
262                               20              25              30
264 Ala His Ser Asn Arg Lys Leu Met Glu Ile Ile
265                               35              40
268 <210> SEQ ID NO: 11
269 <211> LENGTH: 41
270 <212> TYPE: PRT

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Input Set : A:\D6390SEQ.txt
Output Set: N:\CRF3\04032002\J099766.raw

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271 <213> ORGANISM: Ovis aries
273 <220> FEATURE:
274 <223> OTHER INFORMATION: Ovine Corticotropin Releasing Factor (oCRF)
276 <400> SEQUENCE: 11
277 Ser Gln Glu Pro Pro Ile Ser Leu Asp Leu Thr Phe His Leu Leu
278                      5                      10                      15
280 Arg Glu Val Leu Glu Met Thr Lys Ala Asp Gln Leu Ala Gln Gln
281                      20                      25                      30
283 Ala His Asn Asn Arg Lys Leu Leu Asp Ile Ala
284                      35                      40
287 <210> SEQ ID NO: 12
288 <211> LENGTH: 38
289 <212> TYPE: PRT
290 <213> ORGANISM: Takifugu rubripes
292 <220> FEATURE:
293 <221> NAME/KEY: PEPTIDE
294 <222> LOCATION: 10
295 <223> OTHER INFORMATION: Pufferfish Urocortin (AL21886); Xaa is unknown
297 <400> SEQUENCE: 12
W--> 298 Pro Pro Leu Ser Ile Asp Leu Thr Phe Xaa Leu Leu Arg Asn Met
299                      5                      10                      15
301 Met Gln Arg Ala Glu Met Glu Lys Leu Arg Glu Gln Glu Lys Ile
302                      20                      25                      30
304 Asn Arg Glu Ile Leu Glu Gln Val
305                      35
307 <210> SEQ ID NO: 13
308 <211> LENGTH: 40
309 <212> TYPE: PRT
310 <213> ORGANISM: Unknown
312 <220> FEATURE:
313 <223> OTHER INFORMATION: Frog Sauvagine (fSvlg)
315 <400> SEQUENCE: 13
316 Glu Gly Pro Pro Ile Ser Ile Asp Leu Ser Leu Glu Leu Leu Arg
317                      5                      10                      15
320 Lys Met Ile Glu Ile Glu Lys Gln Glu Lys Glu Lys Gln Gln Ala
321                      20                      25                      30
322 Ala Asn Asn Arg Leu Leu Leu Asp Thr Ile
323                      35                      40
326 <210> SEQ ID NO: 14
327 <211> LENGTH: 40
328 <212> TYPE: PRT
329 <213> ORGANISM: Homo sapiens
331 <220> FEATURE:
332 <223> OTHER INFORMATION: Human Urocortin (hUcn)
334 <400> SEQUENCE: 14
335 Asp Asn Pro Ser Leu Ser Ile Asp Leu Thr Phe His Leu Leu Arg
336                      5                      10                      15
338 Thr Leu Leu Glu Leu Ala Arg Thr Gln Ser Gln Arg Glu Arg Ala
339                      20                      25                      30

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VERIFICATION SUMMARY

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L:13 M:282 W: Numeric Field Identifier Missing, <140> CURRENT APPLICATION NUMBER: is Added.
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12